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DATE MAILED: 04/30/2008

NOTICE OF ALLOWANCE AND FEE(S) DUE

26698 7590 0430/2008 MYRIAD GENETICS INC. INTELLECUTAL PROPERTY DEPARTMENT 320 WAKARA WAY

SALT LAKE CITY, UT 84108

EXAMINER

WOLLENBERGER, LOUIS V

ART UNIT PAPER NUMBER

1635

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 10/680,449
 10/62/203
 Liwen Huang
 1438.01
 4490

TITLE OF INVENTION: RNA INTERFERENCE USING A UNIVERSAL TARGET

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$0	\$0	\$1440	07/30/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence including ed below or directed of tions.	ng the Patent, advance on erwise in Block 1, by (rders and notification of a) specifying a new con	f mainter rresponde	nance fees w nce address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence address rate "FEE ADDRESS" f
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
26698	7590 04/30	/2008		are as on				
MYRIAD GENETICS INC. INTELLECUTAL PROPERTY DEPARTMENT 320 WAKARA WAY				Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop 18SUF FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.				
SALT LAKE CI	ITY, UT 84108		ſ					(Depositor's name
								(Signature
			[(Data
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTORNEY DOCKET NO.		RNEY DOCKET NO.	CONFIRMATION NO.
10/680,449	10/06/2003	•	Liwen Huang				I438.01	4490
TITLE OF INVENTION	: RNA INTERFERENC	E USING A UNIVERSA	L TARGET					
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nonprovisional	NO	\$1440	\$0		\$0		\$1440	07/30/2008
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	ondence address (or Cha B/122) attached.		or agents OR, alternatively, (2) the name of a single firm (having as a member a 2					
"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.			2 registered patent attorneys or agents. If no name is slisted, no name will be printed.					
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or	type)				
PLEASE NOTE: Unl	less an assignee is ident	ified below, no assignee	data will appear on the	patent.	If an assigne	e is ic	lentified below, the do	ocument has been filed f
(A) NAME OF ASSI		pietion of this form is NC	(B) RESIDENCE: (CI					
(1)111111111111111111111111111111111111	O. LLL		(b) thomas (c)	11 and 5	mil one	00111	,	
Please check the appropr	iate assignee category or	categories (will not be p	rinted on the patent):	Indivi	idual 🖵 Co	rporati	on or other private gro	up entity 🚨 Governmen
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (F		t reapply an	y prev	iously paid issue fee s	shown above)
Issue Fee			A check is enclose					
			☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any					
			overpayment, to De	epósit Acc	count Numbe	r	(enclose ar	extra copy of this form).
5. Change in Entity Sta	tus (from status indicate is SMALL ENTITY stati		☐ b. Applicant is no l	longer clai	iming SMAI	I.EN	FITY status Sec 37 CE	R 1 27(e)(2)
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interest as shown by the	records of the United Sta	ites Patent and Trademari	k Office.					
Authorized Signature				D	ate			
Typed or printed name			Registration No.					
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P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

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10/680,449	10	0/06/2003	Liwen Huang	1438.01	4490		
26698	7590	04/30/2008		EXAMINER			
MYRIAD GEN	NETICS II	WOLLENBERGER, LOUIS V					
INTELLECUTA	L PROPE	RTY DEPAR	TMENT	ART UNIT	PAPER NUMBER		
320 WAKARA		1635					
SALT LAKE CITY, UT 84108				TO A STEE TAKEN TO THE OLD OF COOK			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

Notice of Allowability

	_				
Application No.	Applicant(s)	Applicant(s)			
10/680,449	HUANG ET AL.				
Examiner	Art Unit				
Examiner	AIT OIII				
Louis Wollenberger	1635				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to the replies filed 10/15/07 and 2/8/08. The allowed claim(s) is/are 1-34. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) \square All 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3.
 ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6.

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08).
- Paper No./Mail Date
- 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. T Examiner's Statement of Reasons for Allowance
- Other .

/Sean R McGarry/ Primary Examiner, Art Unit 1635 Application/Control Number: 10/680,449 Page 2

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EXAMINER'S COMMENT

Status of Application/Amendment/Claims

Applicant's response, including the amendments to the claims, filed 2/8/2008 to the Notice of Non-Compliant Amendment, mailed 1/8/08, is acknowledged.

With entry of the amendment filed on 2/8/2008, claims 1-34 are pending.

Applicant's response filed 15 October 2007 to the Non-Final Rejection mailed 5/15/2007 has been considered. Rejections and/or objections not reiterated from the previous office action mailed 5/15/2007 are hereby withdrawn. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

It is noted for the record that for purposes of the examination of the instant claims the Examiner has relied on the special meaning of the limitation "a chimeric RNA transcript" provided by the specification at page 16, lines 28-30. The claims have been construed by the Office according to this special meaning.

Claim Rejections - 35 USC § 112, second paragraph—withdrawn

The rejection of Claims 16–29 and 31–33 under 35 U.S.C. 112, second paragraph, as being indefinite is withdrawn in view of Applicant's arguments, which are found persuasive.

Claim Rejections - 35 USC § 112, first paragraph—withdrawn

The rejection of Claims 16–29 and 31–33 under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement is withdrawn in view of Applicant's arguments, which are found persuasive.

Claim Rejections - 35 USC § 101 and 112, first paragraph—withdrawn

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The rejection of Claims 16–34 under 35 U.S.C. 101, and therefore 35 USC 112, because the claimed invention is not supported by either a credible, specific and substantial utility or a well established utility is withdrawn in view of Applicant's arguments, which are found persuasive.

The further rejection of Claims 18–34 under 35 U.S.C. 112, first paragraph, for lack of enablement is withdrawn in view of Applicant's amendments to the claims.

Claim Rejections - 35 USC § 103-withdrawn

The rejection of Claims 16–20 and 27–34 under 35 U.S.C. 103(a) as being unpatentable over Sijen et al. (2001) *Cell* 107:465–476; Pal-Bhadra et al. (1998) *Cell* 99: 35–46; Voinnet et al. (1998) *Cell* 95:177–187; Fire et al. (1990) *Gene* 93:189–198; Kennerdell et al. (1998) *Cell* 95:1017-1026; and Elbashir et al. (2001) *Nature* 411:494–498 is withdrawn in view of Applicant's amendments to the claims.

Allowable subject matter

Claims 16-34 are directed to an allowable product. Pursuant to the procedures set forth in MPEP § 821.04(B), claims 1-15, directed to the process of making or using an allowable product, previously withdrawn from consideration as a result of a restriction requirement, are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Because all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement as set forth in the Office action mailed on 5/2/2005 is hereby withdrawn. In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claim presented in a continuation or

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divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Claims 1-34 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Louis Wollenberger whose telephone number is (571)272-8144. The examiner can normally be reached on M-F, 8 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James (Doug) Schultz can be reached on (571)272-0763. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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LW Examiner AU1635 April 14, 2008

/Sean R McGarry/ Primary Examiner, Art Unit 1635